



NORTH DAKOTA STATE DEPARTMENT OF HEALTH
Air Pollution Control Program
1200 Missouri Avenue
Bismarck, North Dakota 58505

ANNUAL EMISSION INVENTORY REPORT
FORM AP 301
FUEL BURNING EQUIPMENT USED FOR INDIRECT HEATING
Calendar Year 1977

FEB 15 1978

1. Name of Firm or Organization: Montana-Dakota Utilities Co.
2. Plant Location: Mandan, North Dakota
3. Permit to Operate Number: F76001
4. Source Unit Number (from Permit to Operate): 1
5. Type and Quantity of Fuel Used:

	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Quantity per year <u>171,162 Tons</u> (Specify Units) Delivered Cost of fuel <u>\$6.09/Ton</u> (\$/Unit Quantity)	Type <u>Natural Gas</u> Quantity per year <u>None</u> (Specify Units) Delivered Cost of fuel <u>N.A.</u> (\$/Unit Quantity)
PERCENT ASH (Solid Fuel Only) Max. Min. Avg.	11.00 4.95 7.38	
PERCENT SULFUR Max. Min. Avg.	0.98 0.47 0.68	
BTU PER UNIT Max. Min. Avg.	7390 6730 6958	

6. Monthly Fuel Use:

QUANTITY			QUANTITY		
MONTH	PRIMARY FUEL	STANDBY FUEL	MONTH	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u>	Type <u>N.A.</u>		Type <u>Lignite</u>	Type <u>N.A.</u>
	Units <u>Tons</u>	Units _____		Units <u>Tons</u>	Units _____
Jan.	16,391		July	16,036	
Feb.	15,351		Aug.	8,343	
March	16,600		Sept.	14,745	
April	4,471		Oct.	16,816	
May	16,050		Nov.	14,741	
June	15,478		Dec.	16,140	

7. Hourly Fuel Use:

	QUANTITY	
	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Units <u>Tons</u>	Type <u>N.A.</u> Units _____
Maximum	29.2	
Average	21.7	

8. Normal Schedule of Operation:

Hours Per Day 24 Weeks Per Year 48

Days Per Week 7 Peak Season July-December
(Specify Months of Year)

Total Hours Per Year 7878.5

9. Stack Emissions:

POLLUTANT	QUANTITY POUNDS PER HOUR (AVERAGE)	TONS PER YEAR
Particulate	10.8	42
Sulfur Dioxide	Unknown	-
Nitrogen Oxides	Unknown	-
Other (Specify)	-	-

Basis For Quantities Listed Above:

Particulate data is based on tests run in October, 1976.
No recent sulfur dioxide data exists that is accurate
for reporting purposes. No tests have been run for
nitrogen oxides.

10. Name of Person Submitting Report (Print or Type) Earl F. BackhausTitle Asst. Manager, Power Production Phone (701) 224-3000

*I declare under the penalties of perjury that this
report has been examined by me and to the best of
my knowledge and belief is a true, correct, and
complete report.*

(Signed)

Earl F. Backhaus Date Feb. 15, 1978